

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/827,110	04/05/2001	Elizabeth A. Wang	CIBT-P03-031 7778	
28120 7	590 06/25/2004	EXAMINER		INER
ROPES & GRAY LLP			TELLER, ROY R	
ONE INTERNATIONAL PLACE BOSTON, MA 02110-2624			ART UNIT	PAPER NUMBER
,			1654	

DATE MAILED: 06/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	<u> </u>				
	Application No.	Applicant(s)			
	09/827,110	WANG, ELIZABETH A.			
Office Action Summary	Examiner	Art Unit			
	Roy Teller	1654			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on <u>09 April 2003</u> .					
2a) This action is FINAL . 2b) ⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 63 and 65-75 is/are pending in the ap 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 63 and 65-75 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/of Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) according a condition of the correct states and a condition of the correct states are subjected to by the Examine 11) The oath or declaration is objected to by the Examine states are subjected to be subjected to by the Examine states are subjected to be subjected to by the Examine states are subjected to by the Examine states are subjected to be subjected to be subjected to	wn from consideration. or election requirement. er. epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). njected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	Patent Application (PTO-152)			

Application/Control Number: 09/827,110

Art Unit: 1654

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/7/04 has been entered.

Applicant has cancelled claims 1-62 and 64, amended claim 63 and added new claims 69-75.

Claims 63 and 65-75 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 63 and 65-68 are rejected under 35 U.S.C. 102(a) as being anticipated by Ingham (USPN 5,844,079).

Application/Control Number: 09/827,110

Art Unit: 1654

The claimed invention is drawn to a preparation comprising a sonic hedgehog polypeptide sequence in which the polypeptide is formulated for topical application to hair.

Ingham et al. teaches topical preparations comprising sonic hedgehog polypeptides encoded by hedgehog related genes, see e.g., for example, column 3. Ingham teaches the Shh polypeptide can comprise a fragment of at least 50, 100 or 150 amino acids in length within the N-terminal half thereof, see, e.g., for example, column 3. In addition, Ingham discloses hedgehog polypeptides which include Shh sequences corresponding approximately to the natural proteolytic fragments of the hedgehog proteins, such as from about Cys-24 through Glu-188, or from about Asn-189 through Ala-475 of the human Shh protein, or analogous fragments thereto, see, e.g., for example, column 3. Please note that nothing would preclude the use of the topical preparations taught by Ingham et al. as instantly claimed- i.e., as topical hair formulations. Therefore, the reference is deemed to anticipate the instant claims above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 63, and 65-68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ingham et al. (USPN 5,844,079).

Application/Control Number: 09/827,110

Art Unit: 1654

The primary reference is relied upon for the reasons set forth above.

Based upon the beneficial overall teachings provided by Ingham et al. with respect to hedgehog protein preparation, if not expressly taught, it would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to make result effective adjustments in conventional working parameters thereto (e.g., particular fraction sizes and modifications thereto) as a mere matter of judicious selection and routine optimization.

Thus, the claimed invention as a whole is *prima facie* obvious over the cited reference, especially in the absence of evidence to the contrary.

Conclusion

All claims are rejected.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roy Teller whose telephone number is 571-272-0971. The examiner can normally be reached on Monday-Friday from 5:30 am to 2:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback, can be reached on 571-272-0961. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

Art Unit: 1654

applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RT 1654 6/21/04

RT

CHRISTOPHER R. TATE PRIMARY EXAMINER